

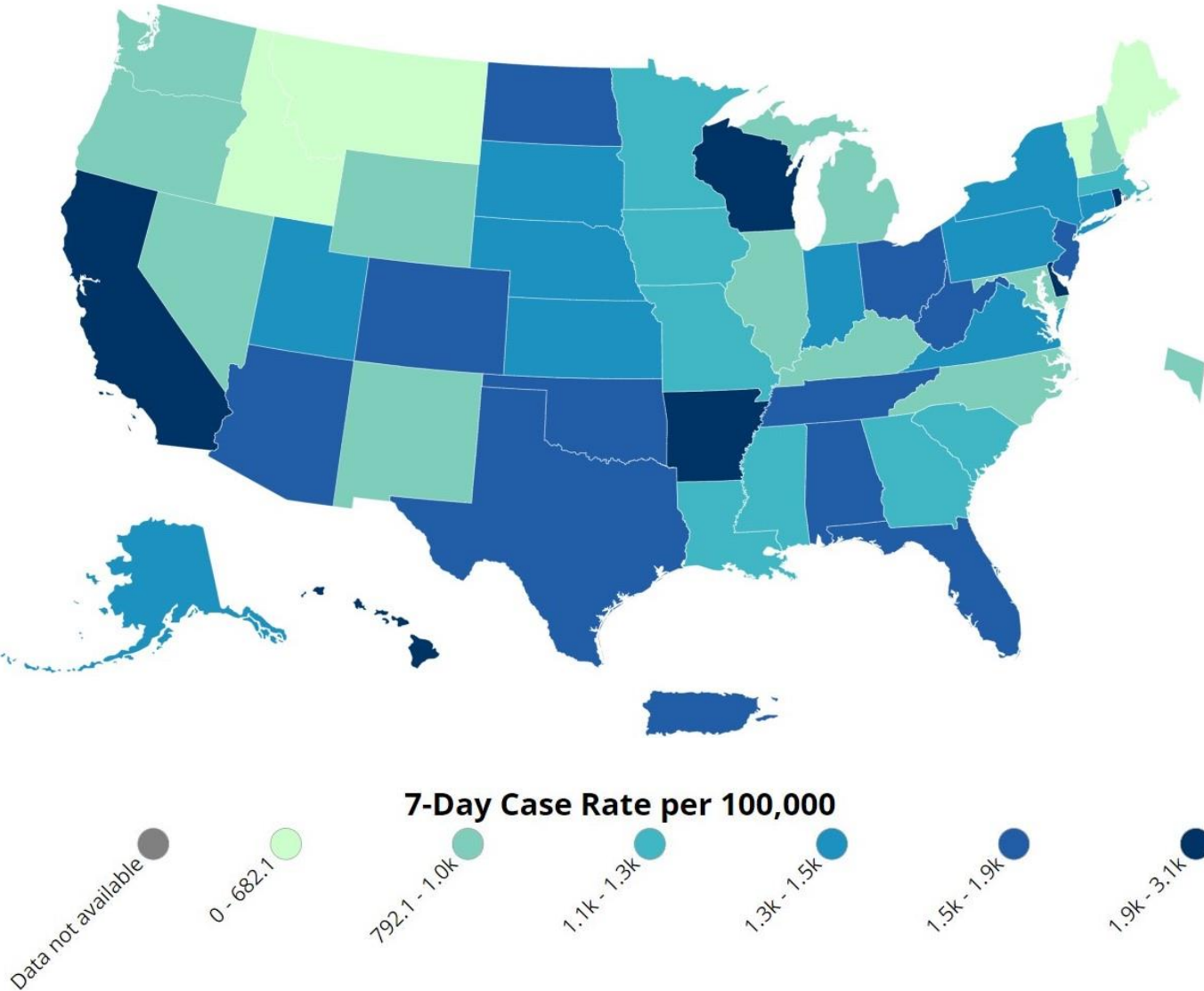
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# Virginia COVID-19 Surveillance Data Update

January 20, 2022



US COVID-19: 7-Day Case Rate per 100,000, by State/Territory



	Cases in the Last 7 Days Per 100k Population
Virginia	1,312 (-12.8%)
U.S.	1,478.6 (-8.1%)
Rhode Island	3,078.1 (-12.5%)
Wisconsin	2,770.8 (+75.4%)
Delaware	2,199.6 (+14.0%)

Our Neighbors

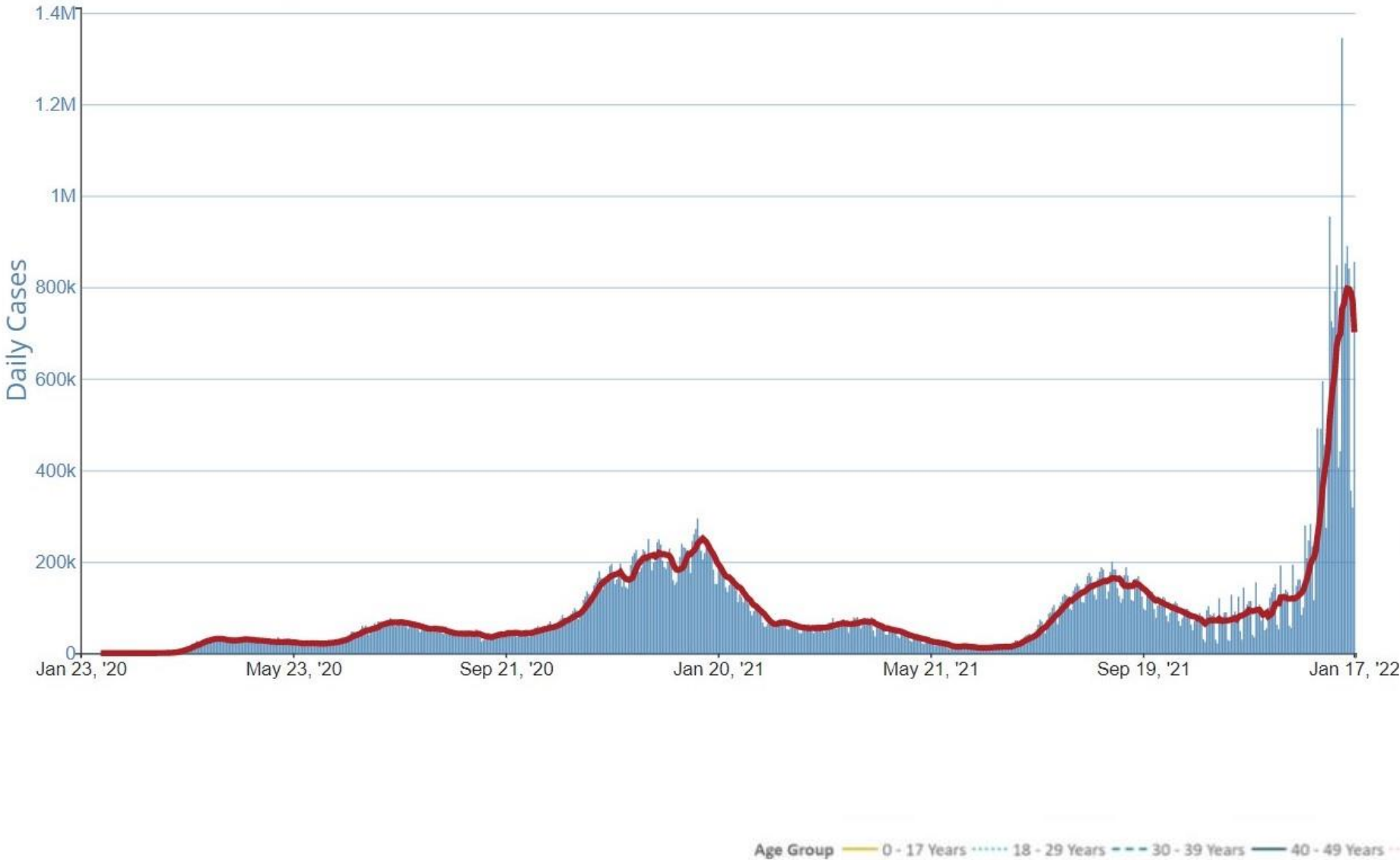
Rates Higher than Virginia

West Virginia, **1,702.9** (-16.8%)  
Tennessee, **1702.3** (-27.0%)

Rates Lower than Virginia:

North Carolina, **988.3** (-30.3%)  
Maryland, **977.7** (-30.6%)  
Kentucky, **957.9** (-24.0%)  
District of Columbia, **792.5** (-53.8%)

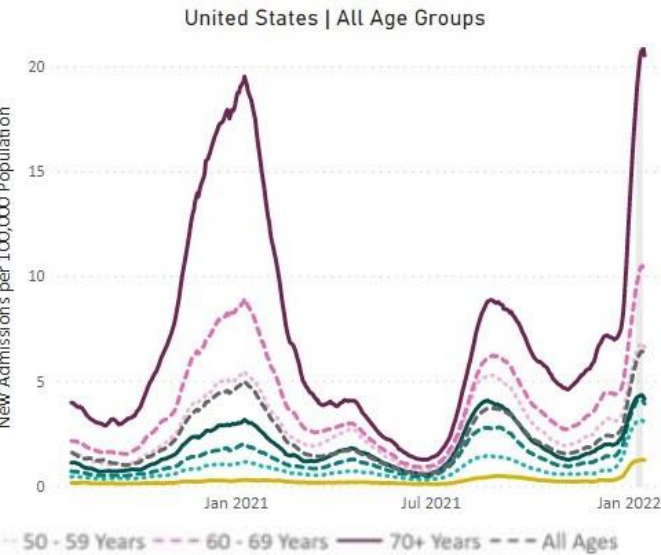
Daily Trends in Number of COVID-19 Cases in The United States Reported to CDC

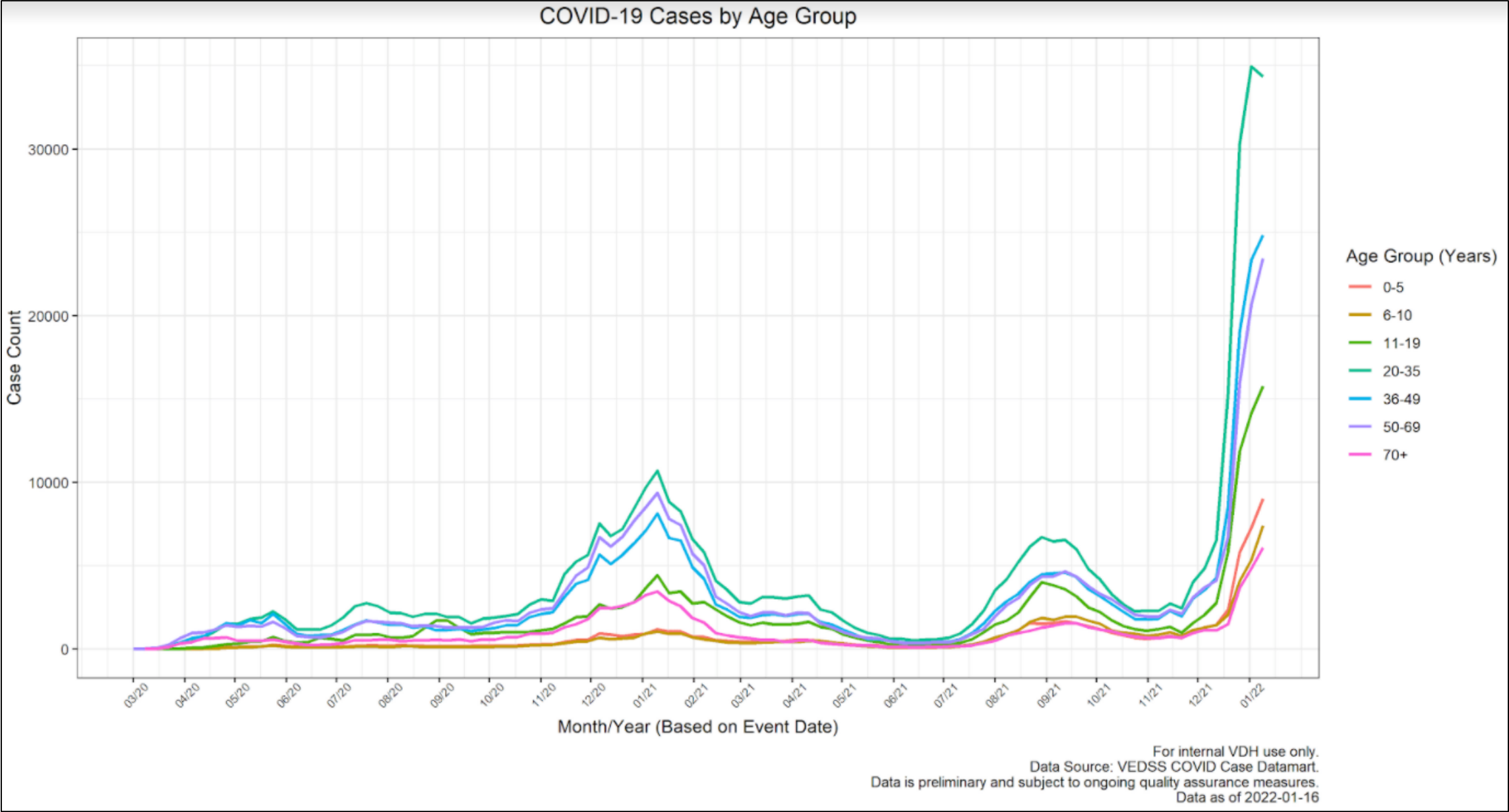


Compared to last week, **cases** decreased to 701,277 (7-day MA) per day (-6.8%)

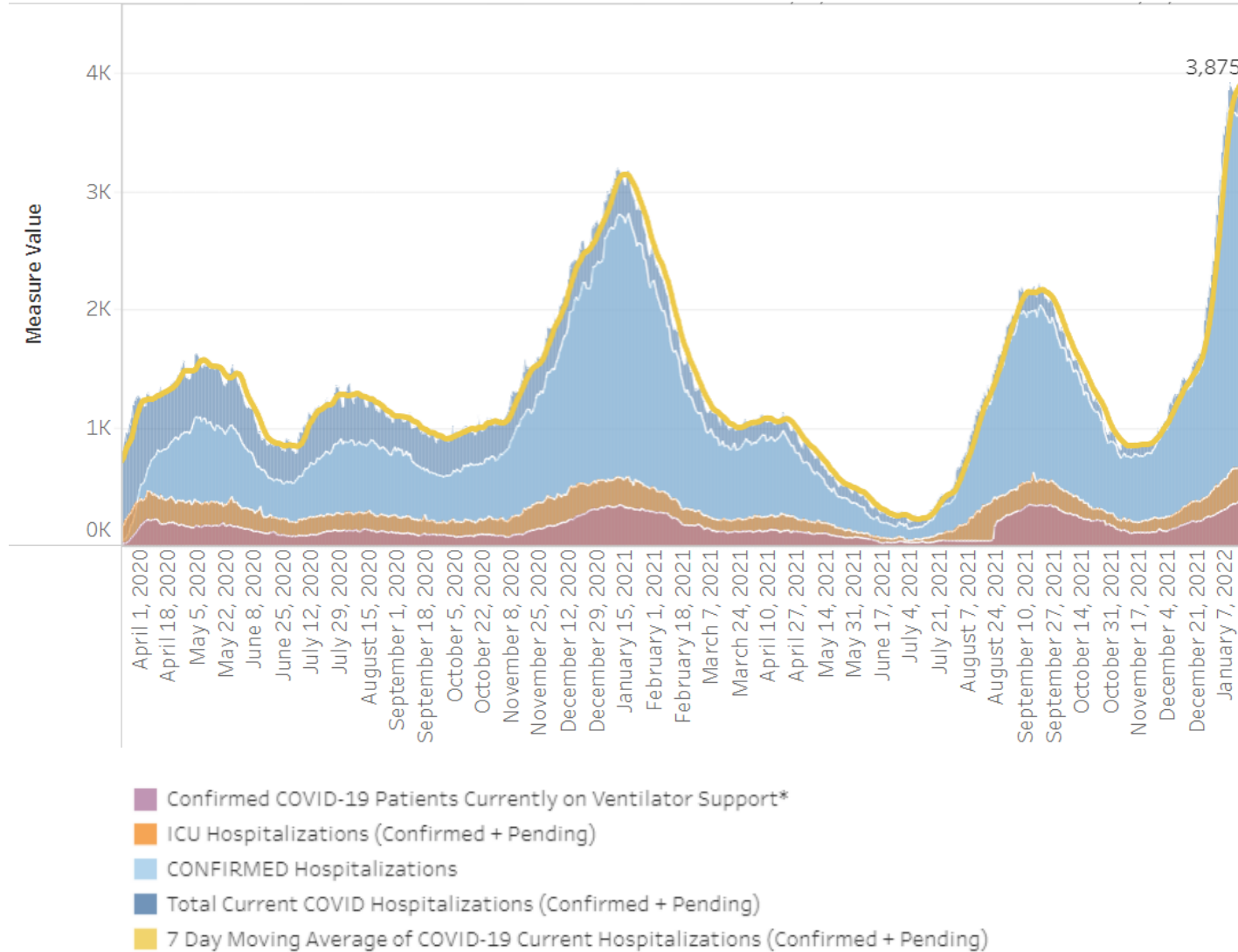
**Hospitalizations** increased to 20,808 (7-day MA) per day (+4.2%)

**Deaths** increased to 1,633 (7-day MA) per day (+4.9%)



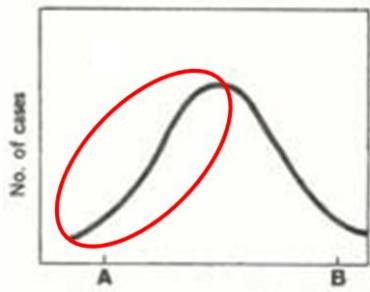


## COVID-19 in Virginia Hospitals



- Compared to last week hospitalizations **increased to 3,875** (7-day MA) from 3,556 (+9%)
- Compared to last week. ICU hospitalizations have **increased to 676** from 621 (+9%)
- 377 patients are currently on ventilator support (+15%)

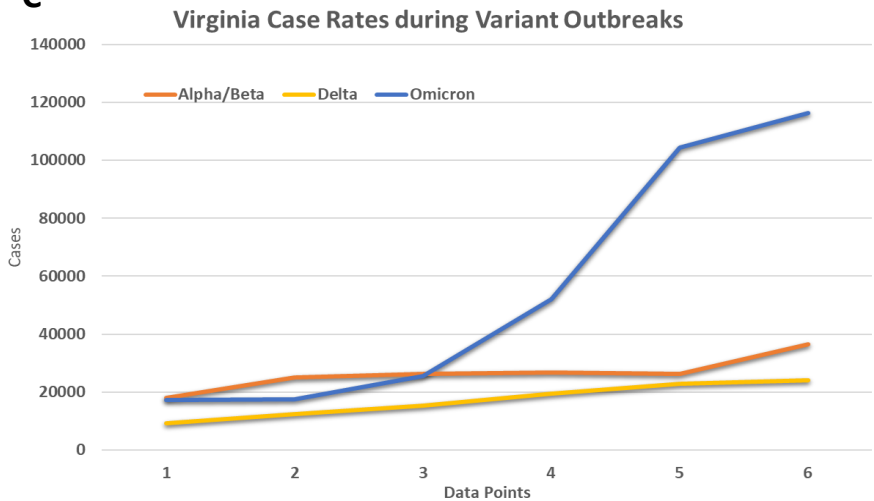
A Data Sampling Method



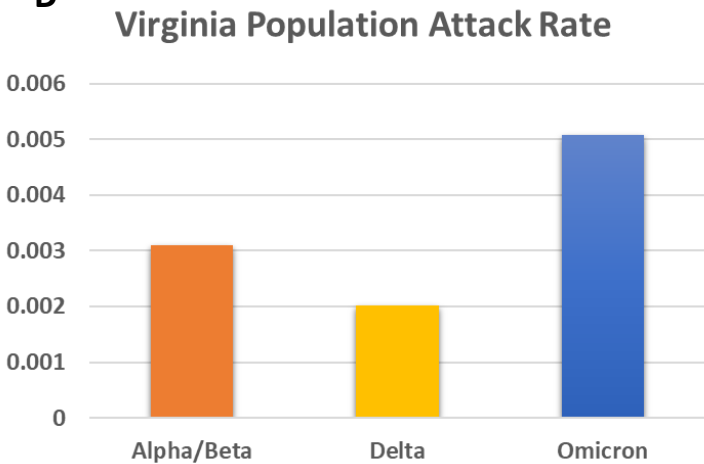
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Data Point	Alpha/Beta	Delta	Omicron
1	11/28/2020	7/31/2021	12/4/2021
2	12/5/2020	8/7/2021	12/11/2021
3	12/21/2020	8/14/2021	12/18/2021
4	12/19/2020	8/21/2021	12/25/2021
5	12/26/2020	8/28/2021	1/1/2022
6	1/2/2021	9/4/2021	1/8/2022

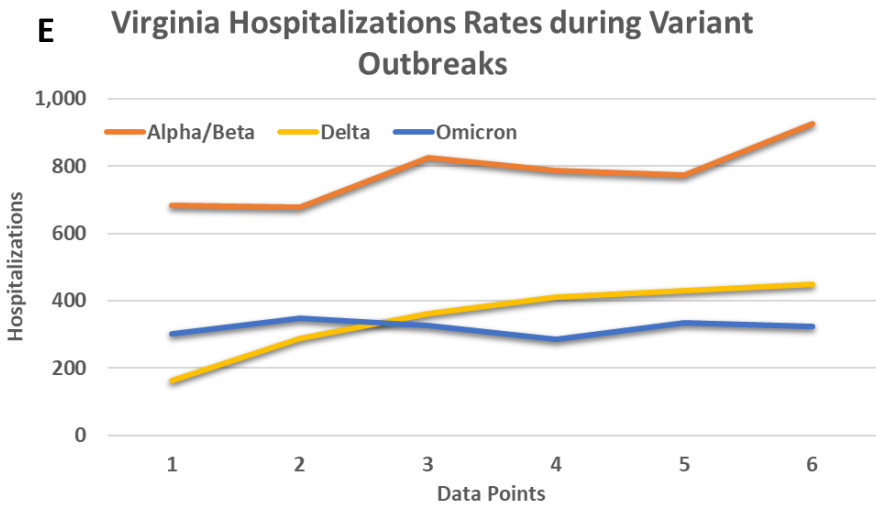
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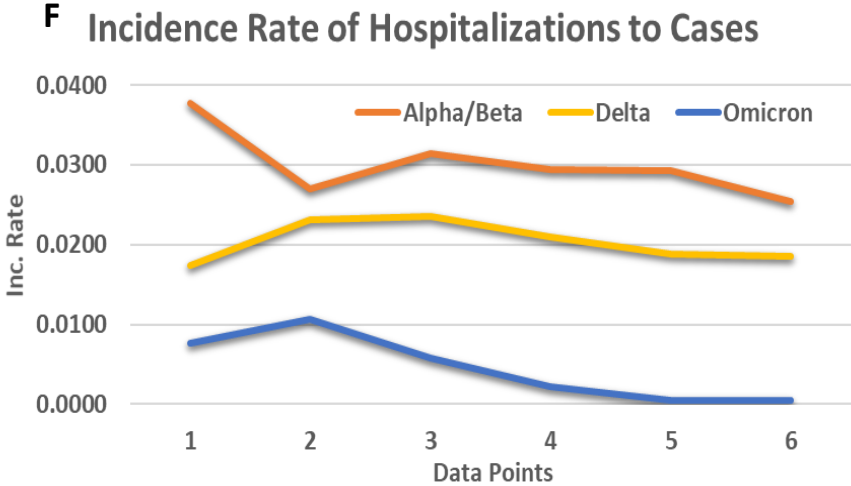
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E



F





# COVID-19 Burden in Virginia LTCFs

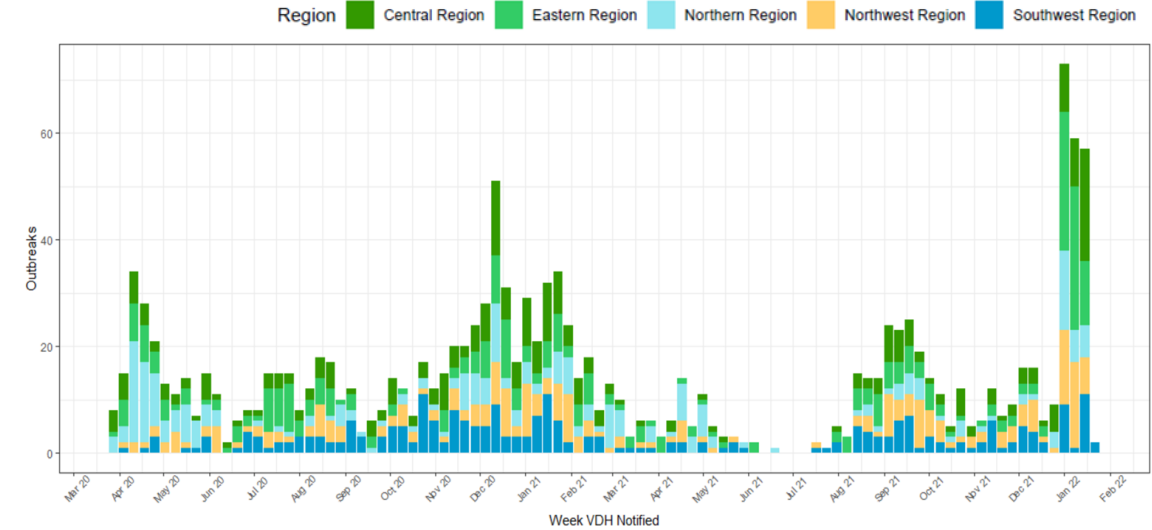
Questions can be directed to: [hai@vdh.virginia.gov](mailto:hai@vdh.virginia.gov)

Updated 1/18/2022

## Key Trends

- There were **202 LTCF COVID-19 outbreaks reported in the past 30 days**: 67 in Eastern, 38 in Northwest, 45 in Central, 29 in Northern, and 23 in Southwest (see figure top right).
- The number of reported resident and staff cases have dramatically increased in the past few weeks (see figure bottom right).
  - For the reporting week ending January 16, 2022, **1,122 resident and 1,248 staff cases** were reported to NHSN. Data for this reporting week are preliminary.
  - This is the highest number of resident cases reported during a week since nursing homes began reporting to NHSN. There was a slight decline in staff cases from the previous reporting week.
- For reporting week ending January 9, 2022, data reported from 280 nursing homes showed **89% of residents were fully vaccinated**; data reported from 281 nursing homes showed **90% of staff were fully vaccinated** (see figures bottom left).
  - Of the nursing home residents eligible to receive an additional dose or booster, 72% have received an additional dose or booster of COVID-19 vaccine.
  - Of the nursing home healthcare personnel eligible to receive an additional dose or booster, 41% have received an additional dose or booster of COVID-19 vaccine.

## Number and Region of LTCF COVID-19 Outbreaks by Date VDH Notified

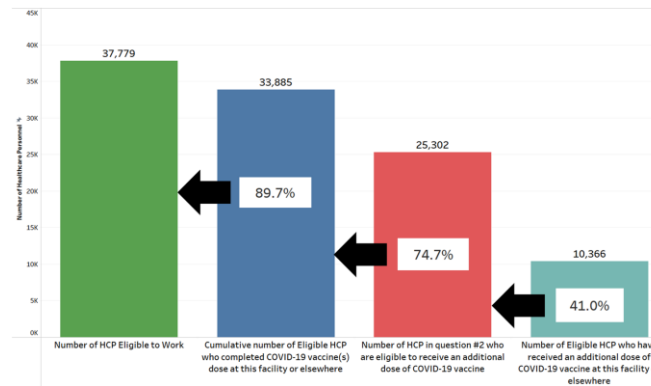
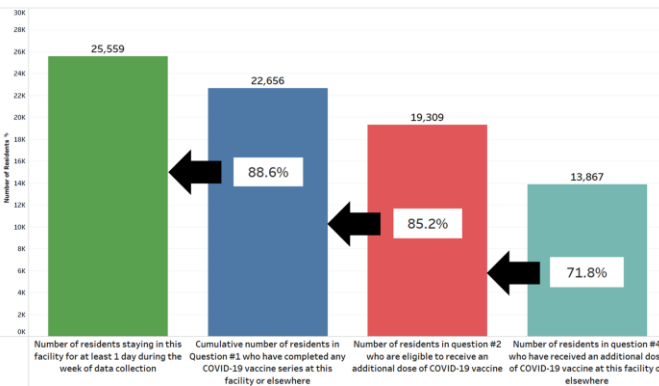


Outbreaks reported from nursing homes, assisted living facilities, and multicare facilities to VDH with a confirmed or suspected etiologic agent of SARS-CoV-2. Data are from the Virginia Outbreak Surveillance System as of 1/18/2022 and are subject to change. Please note that a few SW outbreaks had been reported for the current week (week beginning 1/16/22) at the time of the data pull.

## COVID-19 Booster Vaccination in Virginia Nursing Homes (n=286)

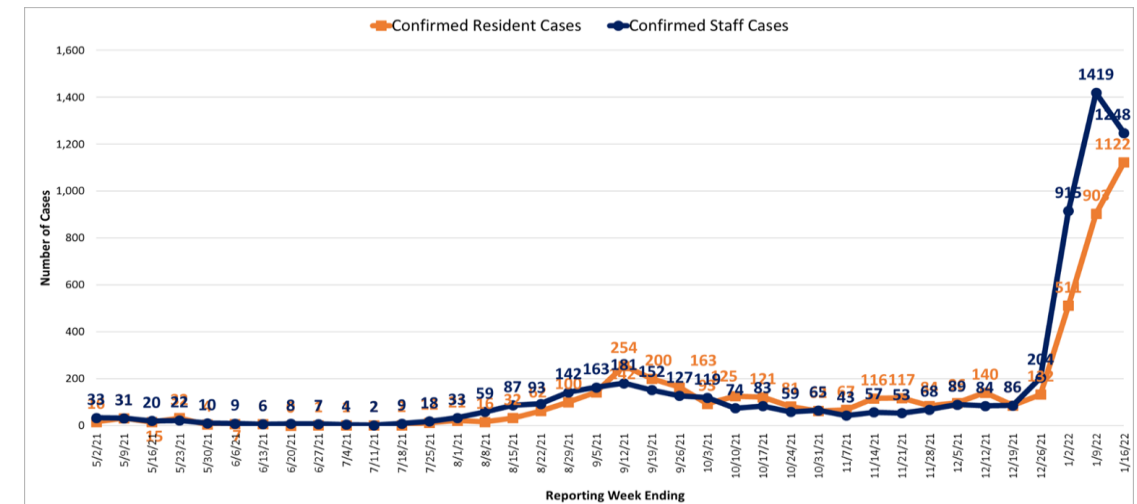
### Nursing Home Residents

### Nursing Home Staff



Data are from the National Healthcare Safety Network (NHSN) as of 1/18/2022 and are subject to change, including booster eligibility per [updated vaccine guidance](#). In Virginia, 280 nursing homes reported resident vaccination data for reporting week ending 1/9/2022; 281 nursing homes reported staff vaccination data for reporting week ending 1/9/2022. For staff type definitions, refer to [NHSN Table of Instructions](#).

## Nursing Home Resident and Staff COVID-19 Cases



Data are from NHSN as of 1/18/2022 and are subject to change. For reporting information, please refer to the NHSN data collection forms: [residents](#), [staff](#).

Metrics date: 1/16/2022

New cases per 100k within the last 7 days

% Positivity 7-day moving average

COVID-like ED visits rate per 100k

Central

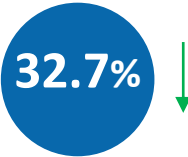
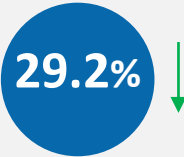
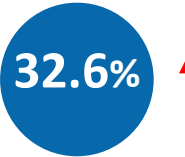
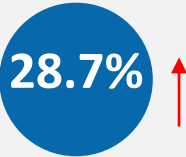
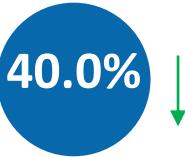
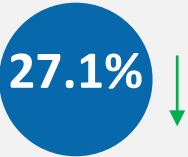
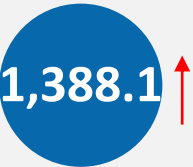
Eastern

Far Southwest

Near Southwest

Northern

Northwest



Burden	Level 0	Level 1	Level 2	Level 3	Level 4
New Cases	<10	10-49		50-100	>100
% Positivity	<3	3-5	5-8	8-10	>10
CLI ED Visits	<4		4-5.9		≥6

Symbol	Trend
↑	Increasing
↓	Decreasing
○	Fluctuating

Please note: the methods used this week have changed slightly; data is now compared from Sunday to Sunday instead of Wednesday to Wednesday



## Active epidemiological investigation on SARS-CoV-2 infection caused by Omicron variant (Pango lineage B.1.1.529) in Japan: preliminary report on infectious period: January 5, 2022

- **Summary:** Preliminary data from the National Institute of Infectious Diseases examined the duration of virus shedding to determine the incubation period for patients with Omicron
- **Key Findings:** SARS-CoV-2 RNA in 83 respiratory specimens from 21 cases revealed the amount of viral RNA was **highest three to six days after diagnosis or symptom onset** and **no infectious virus was detected in samples after 10 days since diagnosis or symptom onset**.

## Discordant SARS-CoV-2 PCR and Rapid Antigen Test Results When Infectious: A December 2021 Occupational Case Series: January 5, 2022

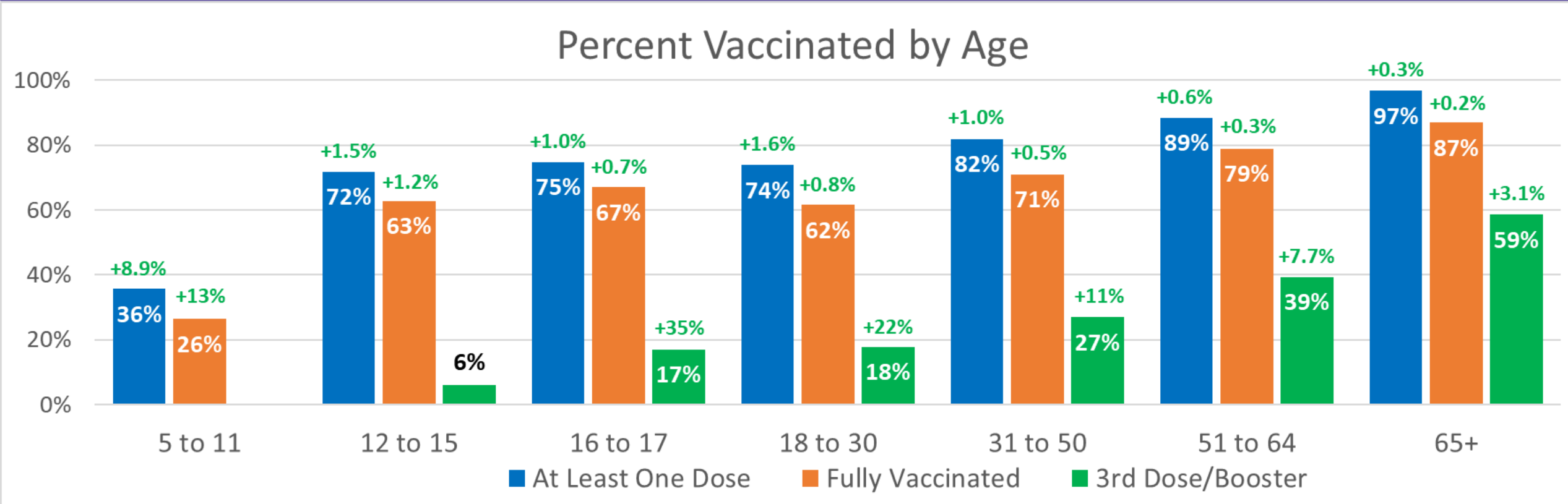
- **Summary:** Retrospective cohort study measuring SARS-CoV-2 PCR and nasal rapid antigen testing amongst individuals in occupational safety programs diagnosed with Omicron variant between December 1-31, 2021
- **Key Findings:** 4 of 30 Omicron cases were confirmed to have transmitted the virus between false-negative results, despite 28 of 30 pairs having infectious viral load within the range of confirmed Omicron transmissions in the cohort. **Between days 0 and 1, all rapid antigen tests produced false-negative results** despite showing infectious viral load.

## SARS-CoV-2 variants of concern and variants under investigation-Technical briefing 34: January 14, 2022

- **Summary:** UK Health Security Agency technical report outlining surveillance and analysis of Omicron severity, symptoms, and prevalence throughout England from December 1st to January 10th.
- **Key Findings:** **Most common symptoms associated with Omicron** cases included **sore throat** (53% Omicron; 34% Delta), while **loss of smell and taste was less common in Omicron** compared to Delta (13% Omicron; 34% Delta). **Vaccine effectiveness for symptomatic Omicron cases is significantly lower than compared to Delta and wane rapidly**, however **protection against hospitalization is much greater** (*see table below*)

Table 2. Hazard ratios and vaccine effectiveness against hospitalisation (all vaccine brands combined). OR = odds ratio, HR = hazards ratio, VE = vaccine effectiveness

Dose	Interval after dose (weeks)	OR v symptomatic disease	HR vs hospitalisation	VE vs hospitalisation
1	4+	0.74 (0.72-0.76)	0.57 (0.38-0.85)	58% (37-72)
2	2 to 24	0.81 (0.8-0.82)	0.45 (0.36-0.56)	64% (54-71)
2	25+	0.94 (0.92-0.95)	0.6 (0.49-0.74)	44% (30-54)
3	2 to 4	0.32 (0.31-0.33)	0.26 (0.19-0.35)	92% (89-94)
3	5 to 9	0.42 (0.41-0.43)	0.29 (0.23-0.37)	88% (84-91)
3	10+	0.5 (0.49-0.51)	0.34 (0.26-0.44)	83% (78-87)

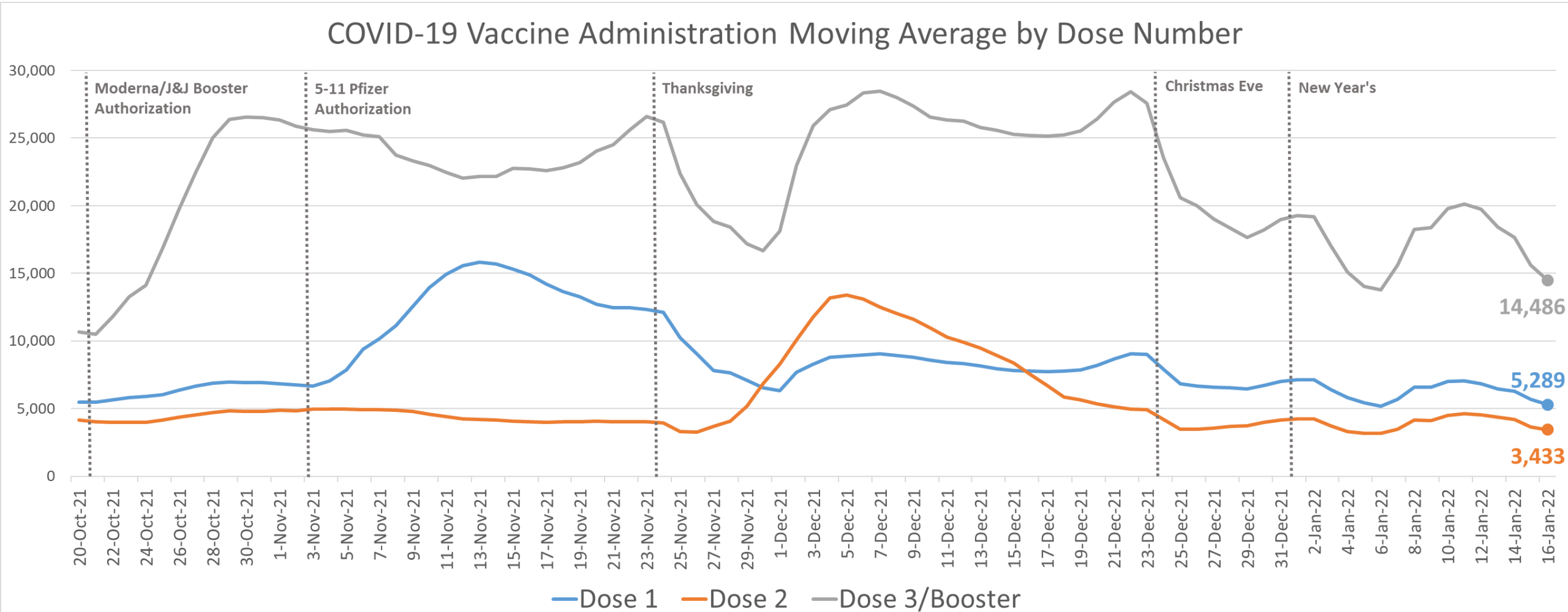


### Virginia Vaccination by Age

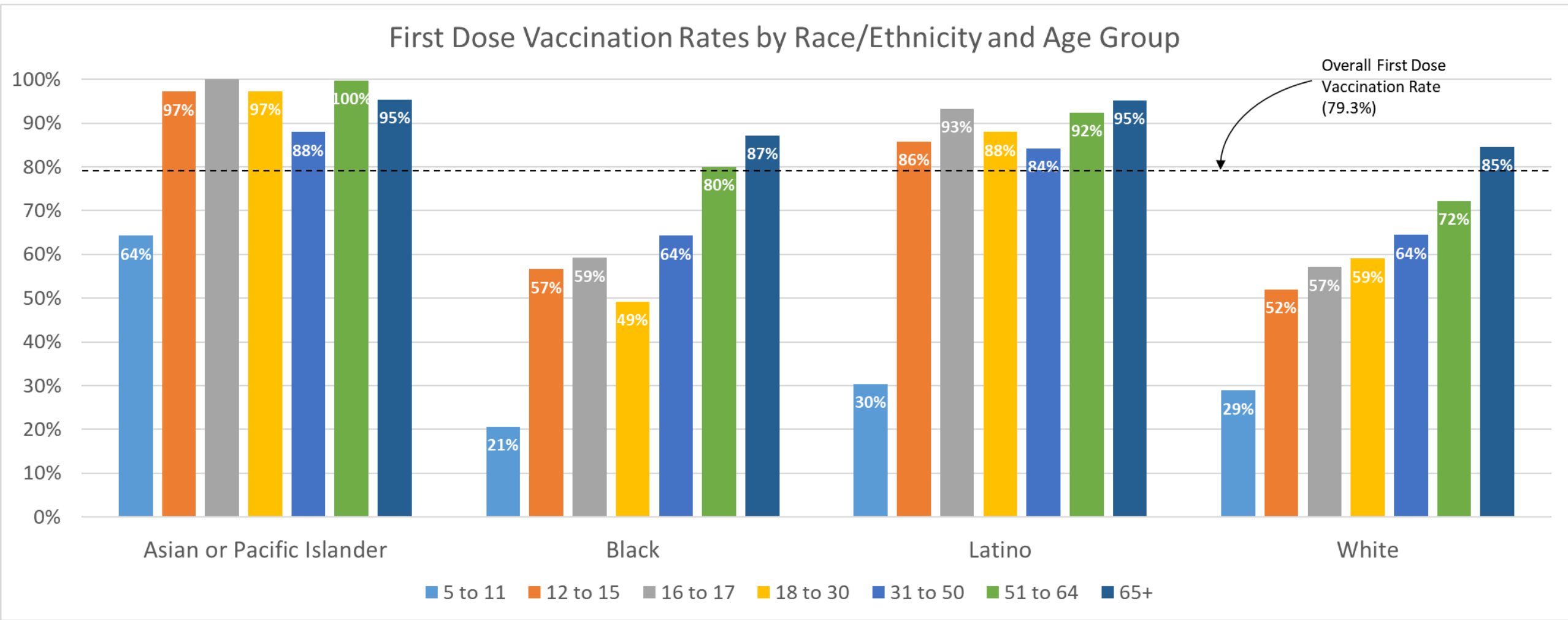
- ✓ **72.8% (+1.1%)** of the Eligible (5+) Population **68.5% (+1.1%)** of the Total Population are Fully Vaccinated
  - ✓ **50.1% (+7.8%)** of the Eligible Population and **27.5% (+9.8%)** of Total Population Vaccinated with 3<sup>rd</sup> Dose/Booster
  - ✓ **35.2% (+7.9%)** of the Total Population is “Up-to-Date” with their Vaccinations
  - ✓ **89.8% (+1.0%)** of the Adult (18+) Population and **36% (+8.9%)** of 5 to 11 year olds Vaccinated with at Least One Dose
- Green percent represents percent increase from two weeks prior

The 7 Day Moving Average of First Dose, Second Dose, and Booster Administrations Are Decreasing

- Third Dose/Booster administrations have fallen in the past week
- First Dose and Second Dose administrations have seen a small decline over the past week

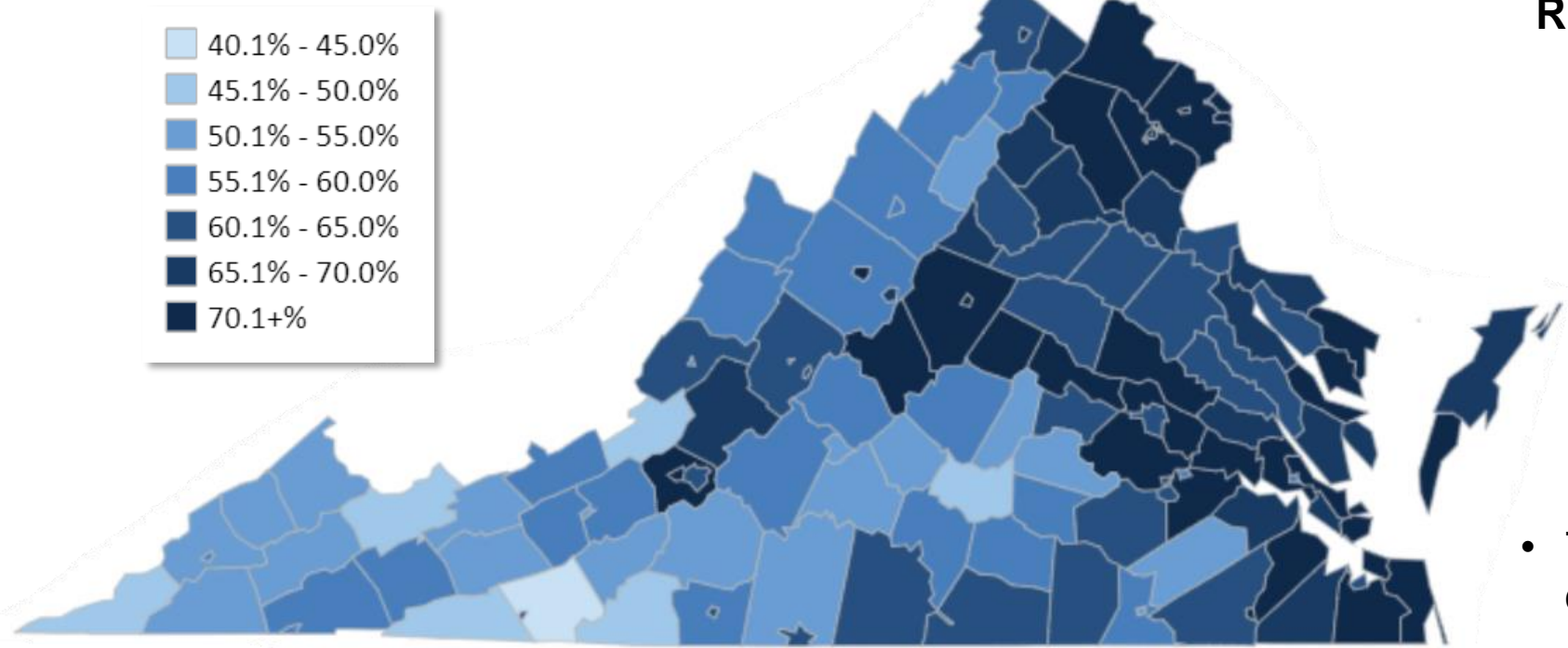


Federal doses not included in this number  
Source: [COVID-19 Vaccine Summary – Coronavirus \(virginia.gov\)](#)



Source: [COVID-19 Vaccine Summary – Coronavirus \(virginia.gov\)](#)

Percent of the Total Population with at Least One Dose by Locality

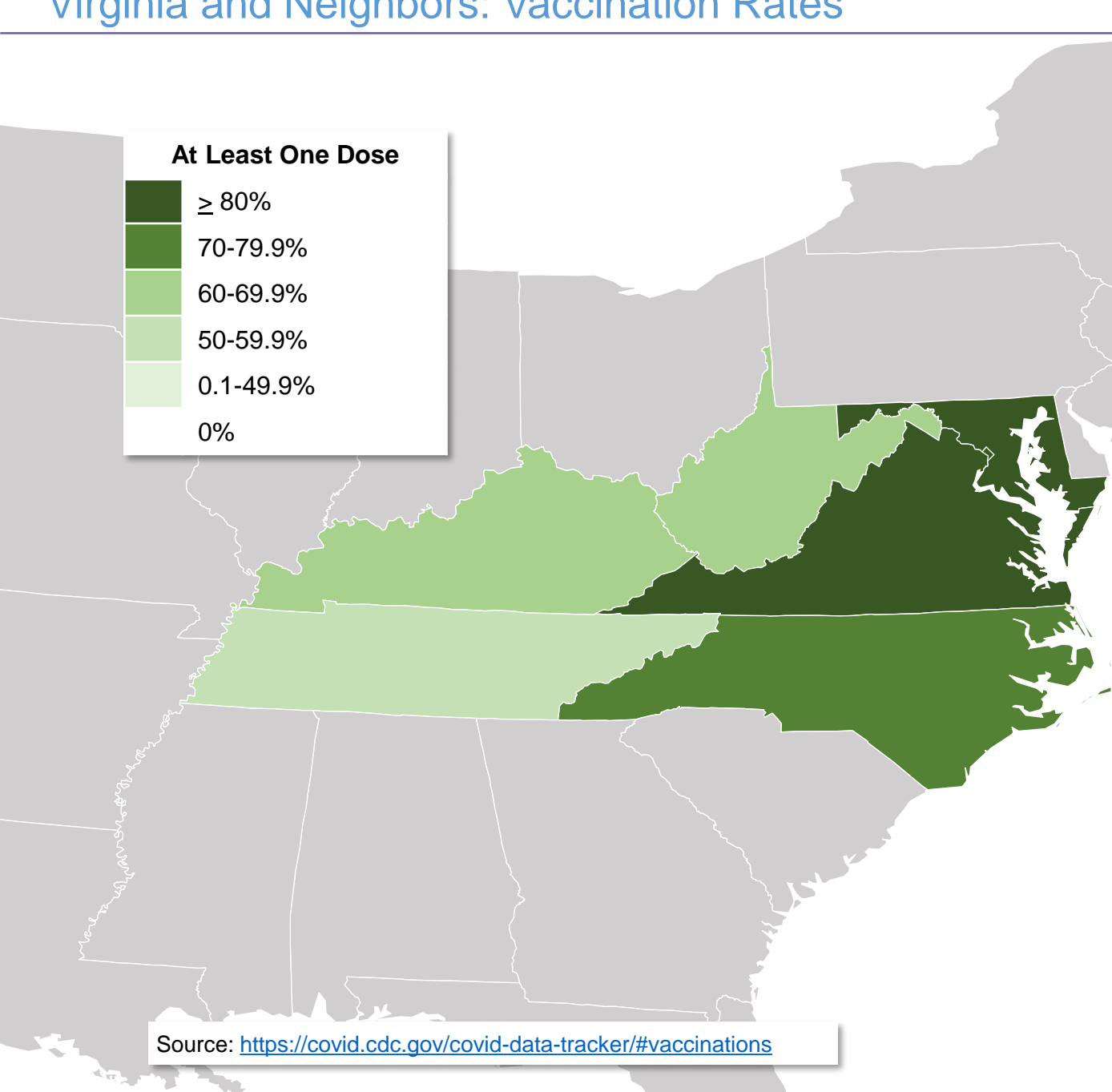


First Dose Vaccination Rate by Region for Total Population

Region Name	1st Dose Vaccination
Central	68.2%
Eastern	72.2%
Northern	82.4%
Northwest	65.6%
Southwest	56.9%

- 7 out of 133 Localities have a first dose vaccination rate below 50%
- 35 out of 133 Localities have a first dose vaccination rate above 70%
- There is a disparity across Urban and Rural areas by Age Groups, with Rural Adolescents the Lowest Vaccinated group

2013 SRHP Isserman Classification	5 to 11	12 to 17	16 to 17	18 to 30	31 to 50	51 to 64	65+	Grand Total
Mixed Urban	39%	72%	77%	74%	74%	85%	87%	65%
Urban	36%	74%	80%	67%	78%	86%	96%	76%
Mixed Rural	25%	52%	59%	58%	64%	74%	83%	61%
Rural	16%	43%	49%	52%	57%	70%	93%	75%
Grand Total	32%	66%	72%	64%	72%	81%	90%	72%



	At Least One Dose*	Fully Vaccinated*
Nationwide	75.1% (+1.8%)	63.0% (+1.3%)
D.C.	91.3% (+2.4%)	68.8% (+1.5%)
Kentucky	63.6% (+1.4%)	55.0% (+1.1%)
Maryland	82.4% (+2.0%)	71.7% (+1.6%)
North Carolina	79.2% (+2.7%)	57.6% (+1.2%)
Tennessee	59.7% (+1.2%)	52.0% (+1.0%)
Virginia**	80.8% (+1.6%)	69.0% (+1.2%)
West Virginia	62.8% (+1.0%)	55.6% (+0.7%)

\*Total population, includes out-of-state vaccinations  
\*\*Differs from previous slide because all vaccination sources (e.g., federal) are included  
\*\*\* Green percent represents percent increase from one weeks prior